

ABSTRACT

A direction sensor has first and second bridge circuits, each of the bridge circuits including at least two detecting elements formed on a main surface of a substrate and connected in series, their longitudinal directions crossing each other. The sensor also has first and second magnetic bias application parts respectively facing toward the first and the second bridge circuits. The directions of the magnetic fields of the magnetic bias application parts are different from each other. The direction sensor does not require a holder or a coil, so that miniaturization of the sensor is feasible.